

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 780068.418C3	APPLICATION NO. 10/000,467
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Jeffery Van Ness et al.	
		FILING DATE October 24, 2001	GROUP ART UNIT Not yet assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Y	AA 4,650,750	03/17/87	Giese	435	7	
M	AB 4,709,016	11/24/87	Giese	530	389	COPY OF PAPERS ORIGINALLY FILED
M	AC 4,762,779	08/09/88	Snitman	435	6	
	AD 5,118,605	06/02/92	Urdea	435	6	
	AE 5,135,870	08/04/92	Williams et al.	436	173	
	AF 5,288,644	02/22/94	Beavis et al.	436	94	
	AG 5,324,631	06/28/94	Helentjaris et al.	435	6	
	AH 5,346,670	09/13/94	Renzoni et al.	422	52	
	AI 5,360,819	11/01/94	Giese	514	538	
M	AJ 5,403,708	04/04/95	Brennan et al.	435	6	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
M	AK CA 2062454 A1	09/08/92	CANADA		
	AL EP 127 154 A2	12/05/84	EPO		
	AM EP 251 786 A2	01/07/88	EPO		
	AN EP 300 730 A1	01/25/89	EPO		
M	AO EP 360 940 A2	04/04/90	EPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

M	AP	Aebersold et al., "Design, synthesis, and characterization of a protein sequencing reagent yielding amino acid derivatives with enhanced detectability by mass spectrometry," <i>Protein Science</i> 1(4):494-503, April 1992.
M	AQ	Amankwa and Kuhr, "Trypsin-Modified Fused-Silica Capillary Microreactor for Peptide Mapping by Capillary Zone Electrophoresis," <i>Anal. Chem.</i> 64:1610-1613, 1992.

EXAMINER *Dee Li* DATE CONSIDERED 9/20/03

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<i>M</i>	BA	5,516,931	05/14/96	Giese et al.	560	59	
	BB	5,602,273	02/11/97	Giese et al.	560	60	
	BC	5,604,104	02/18/97	Giese et al.	435	7.1	
	BD	5,610,020	03/11/97	Giese et al.	435	7.1	
	BE	5,650,270	07/22/97	Giese et al.	435	6	
<i>M</i>	BF	5,952,654	09/14/99	Giese	250	288	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
<i>M</i>	BG	EP 401 821 A1	12/12/90	EPO	COPY OF PAPERS ORIGINALLY FILED	
	BH	EP 502 595 A2	09/09/92	EPO		
	BI	EP 514 927 A1	11/25/92	EPO		
	BJ	EP 539 343 A1	04/28/93	EPO		
	BK	EP 639 647 A2	02/22/95	EPO		
	BL	EP 711 362 B1	05/15/96	EPO		
<i>M</i>	BM	JP 06-289018	10/18/94	JPO (+WPI Abstract No. 95-001707)		X

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

<i>M</i>	BN	Baldwin et al., "Synthesis of a Small Molecule Combinatorial Library Encoded with Molecular Tags," <i>J. Am. Chem. Soc.</i> 117:5588-5589, 1995. (+Supplementary Material, 21 pages)
	BO	Borchardt and Still, "Synthetic Receptor Binding Elucidated with an Encoded Combinatorial Library," <i>J. Am. Chem. Soc.</i> 116:373-374, 1994.
<i>M</i>	BP	Brown et al., "A single-bead decode strategy using electrospray ionization mass spectrometry and a new photolabile linker: 3-Amino-3-(2-nitrophenyl)propionic acid," <i>Molecular Diversity</i> 1:4-12, 1995.

EXAMINER *John L.* DATE CONSIDERED *9/20/03*

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	CA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
4	CB	WO 89/12694	12/28/89	WIPO		
	CC	WO 90/13666	11/15/90	WIPO		
	CD	WO 92/02528	02/20/92	WIPO	COPY OF PAPERS ORIGINALLY FILED	
	CE	WO 92/02638	02/20/92	WIPO		
	CF	WO 92/10587	06/25/92	WIPO		
4	CG	WO 93/20233	10/14/93	WIPO		

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

4	CH	Ching et al., "Polymers as Surface-Based Tethers with Photolytic Triggers Enabling Laser-Induced Release/Desorption of Covalently Bound Molecules," <i>Bioconjugated Chemistry</i> 7(5):525-528, 1996.
	CI	Ching et al., "Surface Chemistries Enabling Photoinduced Uncoupling/Desorption of Covalently Tethered Biomolecules," <i>J. Org. Chem.</i> 61(11):3582-3583, May 31, 1996.
	CJ	Church and Kieffer-Higgins, "Multiplex DNA Sequencing," <i>Science</i> 240:185-188, 1988.
	CK	Church et al., "New Technologies For Genome Sequencing and Analysis," in <i>DOE Human Genome Program Contractor-Grantee Workshop V</i> , Sante Fe, New Mexico, January 28-February 1, 1996, available NTIS, CONF-960143, 1996, p. 51.
	CL	Cobb and Novotny, "High-sensitivity peptide mapping by capillary zone electrophoresis and microcolumn liquid chromatography, using immobilized trypsin for protein digestion," <i>Anal. Chem.</i> 61:2226-2231, 1989.
4	CM	Colombo, "Liquid-phase synthesis of naturally occurring peptides, II. Syntheses of three mast cell degranulating tetradecapeptide amides from wasp venoms," <i>Hoppe Seylers Z. Physiol. Chem.</i> 362(10):1393-1403, October 1981.

EXAMINER	DATE CONSIDERED
<i>John Li</i>	9/20/05

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
Q	DB	WO 93/20236	10/14/93	WIPO		
	DC	WO 93/21340	10/28/93	WIPO		
	DD	WO 94/08051	04/14/94	WIPO	COPY OF PAPERS ORIGINALLY FILED	
	DE	WO 94/16101	07/21/94	WIPO	_____	
	DF	WO 94/21822	09/29/94	WIPO		
DL	DG	WO 94/28418	12/08/94	WIPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Q	DH	Covey et al., "The determination of protein, oligonucleotide and peptide molecular weights by ion-spray mass spectrometry," <i>Rapid Commun. Mass. Spectrom.</i> 2(11):249-256 November 1988.
	DI	Geysen et al., "Isotope or mass encoding of combinatorial libraries," <i>Chemistry & Biology</i> 3(8):679-688, 1996.
	DJ	Giese et al., "Electrophore Mass Labels For TOF-MS DNA Sequencing," in <i>Proceedings of the 44th ASMS Conference on Mass Spectrometry and Allied Topics</i> , Portland, Oregon, May 12-16, 1996, p. 673.
	DK	Giese, "Electrophoric release tags: ultrasensitive molecular labels providing multiplicity," <i>Trends in Analytical Chemistry</i> 2(7):166-168, 1983.
	DL	Greenberg and Gilmore, "Cleavage of Oligonucleotides from Solid-Phase Supports Using o-Nitrobenzyl Photochemistry," <i>J. Org. Chem.</i> 59:746-753, 1994.
	DM	Greenberg, "Photochemical Cleavage of Oligonucleotides From Solid Phase Supports," <i>Tetrahedron Letters</i> 34(2):251-254, 1993.
Q	DN	Hignite, "Nucleic Acids and Derivatives," in <i>Biochemical Applications of Mass Spectrometry, First Supplementary Volume</i> , Waller et al., (eds.), John Wiley & Sons, New York, 1981, pp.527-566.

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	EA						

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					YES	NO
u	EB	WO 95/04160	02/09/95	WIPO		
	EC	WO 95/06752	03/09/95	WIPO		
	ED	WO 95/11961	05/04/95	WIPO	COPY OF PAPERS ORIGINALLY FILED	
	EE	WO 95/14108	05/26/95	WIPO	_____	
	EF	WO 95/25737	09/28/95	WIPO		
u	EG	WO 95/28640	10/26/95	WIPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

u	EH	Holmes and Jones, "Reagents for Combinatorial Organic Synthesis: Development of New o-Nitrobenzyl Photolabile Linker for Solid Phase Synthesis," <i>J. Org. Chem.</i> 60:2318-2319, 1995. (+Supplementary Material, 7 pages)
	EI	Jacobson et al., "Applications of Mass Spectrometry to DNA Sequencing," <i>Genetic Analysis Techniques and Applications</i> 8(8):223-229, 1991.
	EJ	Jane et al., "High-Performance Liquid Chromatographic Analysis of Basic Drugs on Silica Columns Using Non-Aqueous Ionic Eluents," <i>J. Chromatography</i> 323:191-225, 1985.
	EK	Kremsky et al., "Immobilization of DNA via oligonucleotides containing an aldehyde or carboxylic acid group at the 5' terminus," <i>Nucleic Acids Research</i> 15(7):2891-2909, 1987.
	EL	Little et al., "Rapid Sequencing of Oligonucleotides by High-Resolution Mass Spectrometry," <i>J. Am. Chem. Soc.</i> 116:4893-4897, 1994.
	EM	Lloyd-Williams et al., "Convergent Solid-Phase Peptide Synthesis," <i>Tetrahedron</i> 49(48):11065-11133, 1993.
u	EN	Musch et al., "Expert System for Pharmaceutical Analysis. I. Selection of the Detection System in High-Performance Liquid Chromatographic Analysis: UV Versus Amperometric Detection," <i>J. Chromatography</i> 348:97-110, 1985.

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FEB 14 2002U.S. DEPARTMENT OF COMMERCE
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						YES NO
u	FB	WO 96/00378	01/04/96	WIPO		
u	FC	WO 96/22966	08/01/96	WIPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

4	FD	Nashabeh and El Rassi, "Enzymophoresis of nucleic acids by tandem capillary enzyme reactor-capillary zone electrophoresis," <i>J. Chromatography</i> 596:251-264, 1992.
	FE	Nestler et al., "A General Method for Molecular Tagging of Encoded Combinatorial Chemistry Libraries," <i>J. Org. Chem.</i> 59:4723-4724, 1994.
	FF	Ordoukhanian and Taylor, "Design and Synthesis of a Versatile Photocleavable DNA Building Block. Application to Phototriggered Hybridization," <i>J. Am. Chem. Soc.</i> 117:9570-9571, 1995.
	FG	Rich and Gurwara, "Preparation of a New <i>o</i> -Nitrobenzyl Resin for Solid-Phase Synthesis of <i>tert</i> -Butyloxycarbonyl-Protected Peptide Acids," <i>J. Am. Chem. Soc.</i> 97:1575-1579, 1975.
	FH	Rock and Chan, "Synthesis and Photolysis Properties of a Photolabile Linker Based on 3'-Methoxybenzoin," <i>J. Org. Chem.</i> 61:1526-1529, 1996.
	FI	Sanger et al., "DNA sequencing with chain-terminating inhibitors," <i>PNAS USA</i> 74(12):5463-5467, December 1977.
	FJ	Senter et al., "Novel Photocleavable Protein Crosslinking Reagents and Their Use in the Preparation of Antibody-Toxin Conjugates," <i>Photochemistry and Photobiology</i> 42(3):231-237, 1985.
	FK	Sumer et al., "Factors Determining Relative Sensitivity of Analytes in Positive Mode Atmospheric Pressure Ionization Mass Spectrometry," <i>Anal. Chem.</i> 60:1300-1307, 1988.
	FL	Teague, "Facile Synthesis of a <i>o</i> -Nitrobenzyl Photolabile Linker for Combinatorial Chemistry," <i>Tetrahedron Letters</i> 37(32):5751-5754, 1996.
u	FM	Thiele and Fahrenholz, "Photocleavable Biotinylated Ligands for Affinity Chromatography," <i>Analytical Biochemistry</i> 218:330-337, 1994.

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	GA						
	GB						
	GC						
	GD						
	GE						
	GF						

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					YES	NO
	GG					
	GH					
	GI					
	GJ					

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

<i>h</i>	GK	V.N. Rajasekharan Pillai, "Photoremovable Protecting Groups in Organic Synthesis," <i>Synthesis</i> 1:1-26, 1980.
	GL	Valaskovic et al., "Attomole-Sensitivity Electrospray Source for Large-Molecule Mass Spectrometry," <i>Anal. Chem.</i> 67:3802-3805, 1995.
	GM	Voivodov et al., "Surface Arrays of Energy Absorbing Polymers Enabling Covalent Attachment of Biomolecules for Subsequent Laser-Induced Uncoupling/Desorption," <i>Tetrahedron Letters</i> 37(32)5669-5672, 1996.
	GN	Yoo and Greenberg, "Synthesis of Oligonucleotides Containing 3'-Alkyl Carboxylic Acids using Universal, Photolabile Solid Phase Synthesis Supports," <i>J. Org. Chem.</i> 60:3358-3364, 1995.
<i>h</i>	GO	Zablocki et al., "Potent <i>in Vitro</i> and <i>in Vivo</i> Inhibitors of Platelet Aggregation Based Upon the Arg-Gly-Asp Sequence of Fibrinogen. (Aminobenzamidino)succinyl (ABAS) Series of Orally Active Fibrinogen Receptor Antagonists," <i>J. Med. Chem.</i> 38:2378-2394, 1995.

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